



Ivanovic, R. F., Gregoire, L. J., Wickert, A. D., Valdes, P. J., & Burke, A. (2017). Collapse of the North American ice saddle 14,500 years ago caused widespread cooling and reduced ocean overturning circulation. *Geophysical Research Letters*, 44(1), 383-392.  
<https://doi.org/10.1002/2016GL071849>

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*Geophysical research letters*

Supporting Information for

**Collapse of the North American ice saddle 14,500 years ago caused widespread cooling and reduced ocean overturning circulation**

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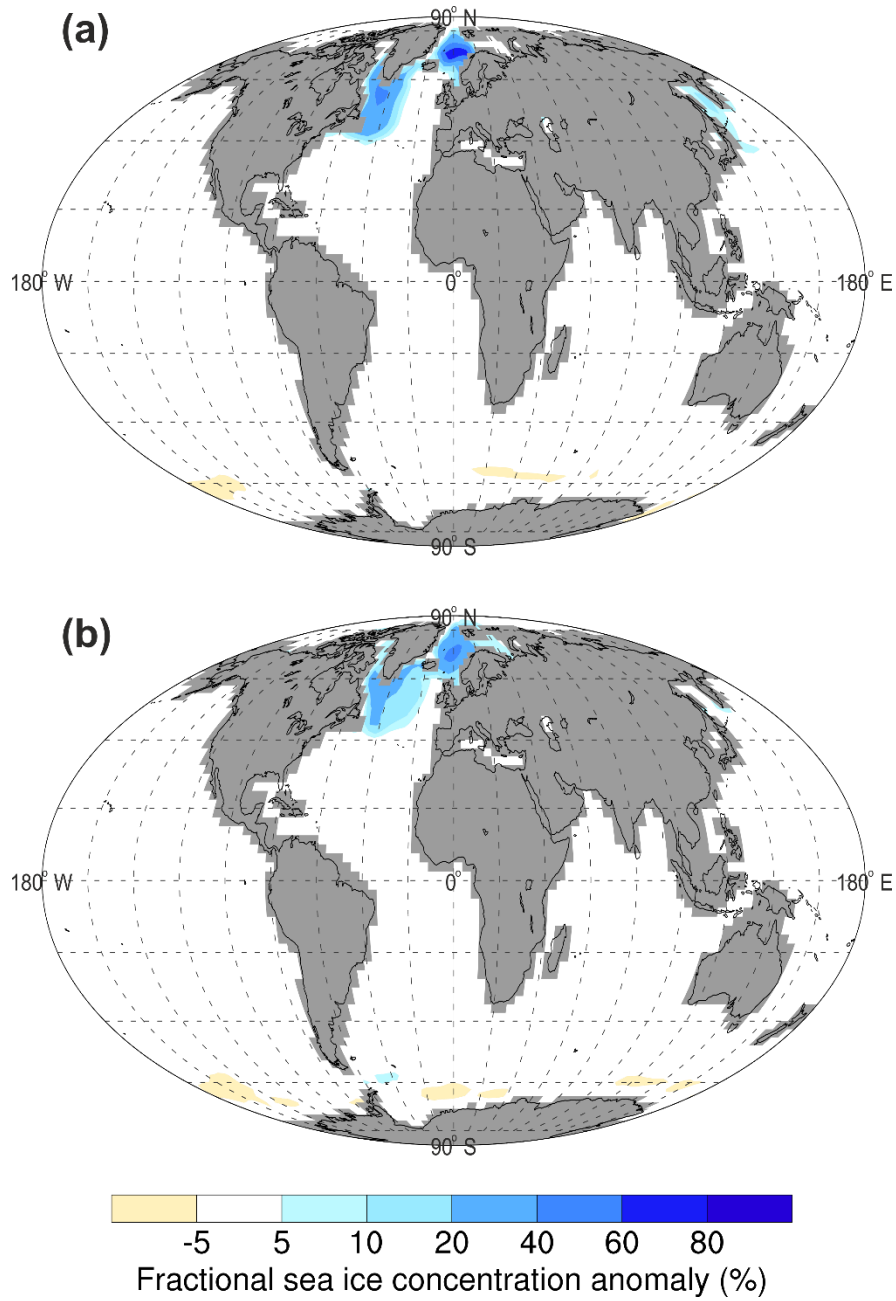
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**Contents of this file**

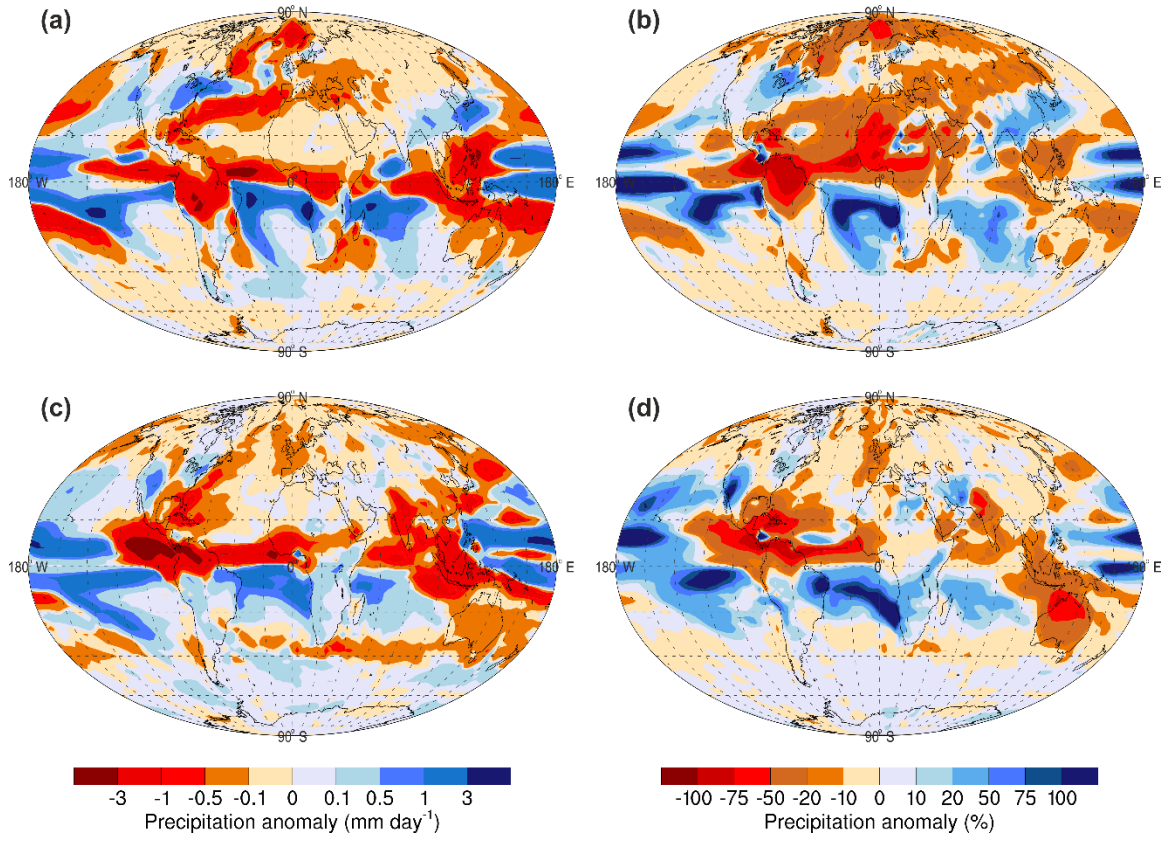
Figures S1 to S3

**Introduction**

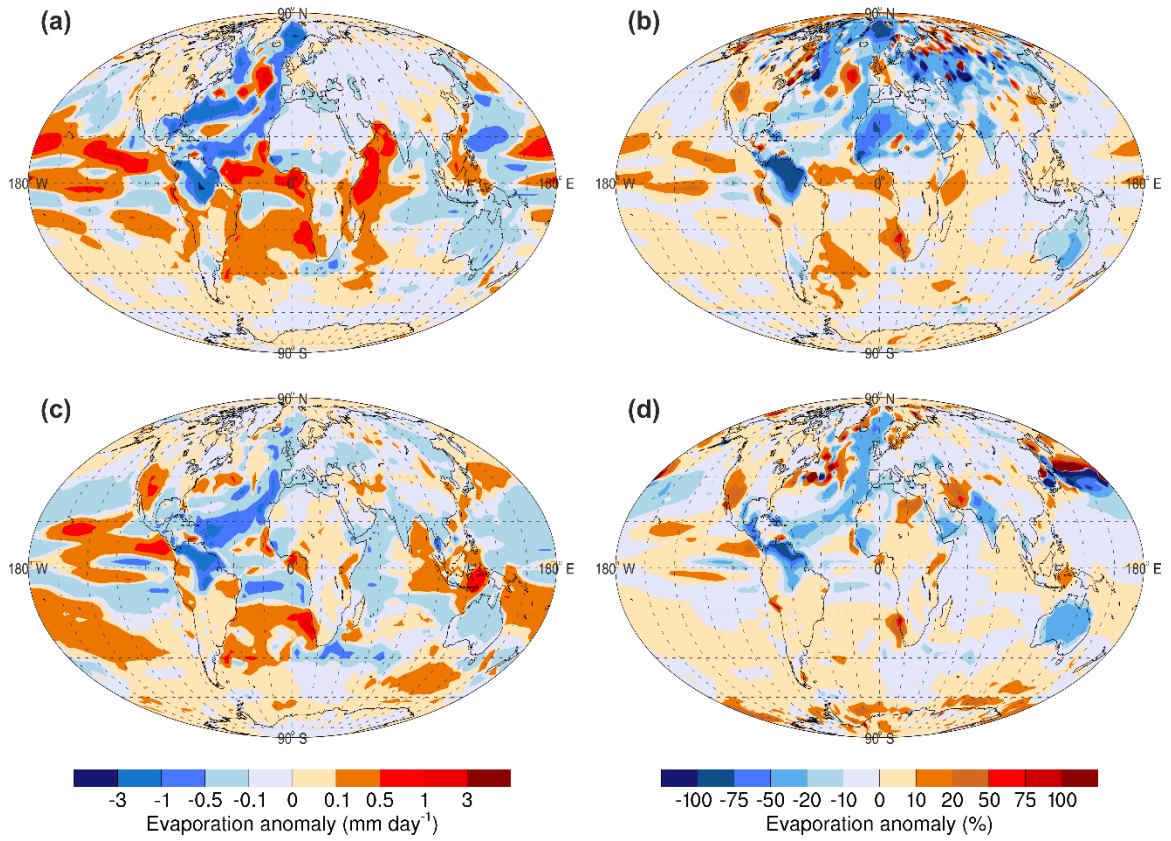
This supporting information contains figures showing the HadCM3 model results for sea ice, precipitation and evaporation as they are described in the main manuscript (Section 3.2).



**Figure S1.** Sea ice cover anomaly at 14.4 ka (*SC\_south* minus *NoSC\_south*, 100 year mean) in (a) December-January-February and (b) June-July-August.



**Figure S2.** Precipitation anomaly at 14.4 ka ( $SC\_south$  minus  $NoSC\_south$ , 100 year mean) in (a) and (b) December-January-February, (c) and (d) June-July-August. (a) and (c) expressed in terms of absolute anomaly. (b) and (d) expressed in terms of percentage change.



**Figure S3.** Evaporation anomaly at 14.4 ka (*SC\_south* minus *NoSC\_south*, 100 year mean) in (a) and (b) December-January-February, (c) and (d) June-July-August. (a) and (c) expressed in terms of absolute anomaly. (b) and (d) expressed in terms of percentage change.